

**AMENDMENTS TO THE CLAIMS**

- 1 1. (Currently Amended) A method of transporting voice, voiceband data and phone  
2 signaling over a network, the method comprising the steps of:  
3 converting analog phone signals into voice packets for transporting digitized voice,  
4 digitized voiceband data and digitized phone signaling, wherein said voice  
5 packets conform to a set of protocols that excludes Internet Protocol (IP), and  
6 wherein each of said voice packets is an Ethernet packet encapsulating one ATM  
7 Adaptation Layer 2 (AAL2) cell;  
8 setting a field in a frame header of a HomePNA frame that encapsulates each of the  
9 voice packets associated with the digitized voice and digitized voiceband  
10 indicating that the voice packets are to be transmitted at a highest level of priority  
11 of a phone line local area network that supports levels of transmission priority for  
12 transmitting data; and  
13 transmitting said voice packets over the phone line local area network without a separate  
14 voice dedicated network and without a logically separate voice network, wherein  
15 the voice packets associated with the digitized voice and digitized voiceband are  
16 transmitted at the highest level of priority as indicated by the setting of the field in  
17 the frame header,  
18 wherein said phone line local area network follows a HomePNA network protocol.

1 2. (Canceled)

1 3. (Canceled)

1 4. (Previously Presented) The method of Claim 1, wherein the step of transmitting  
2 includes transmitting said voice packets over phone line inside wiring in a residence that  
3 is connected to one or more analog telephones.

5. (Canceled)

6. (Canceled)

7. (Original) The method of Claim 1, wherein the steps of converting and transmitting are performed by a phone line adaptor connected to a separate device that transmits said analog phone signals to said phone line adaptor.

8. (Currently Amended) A network device that can transmit voice, voiceband data and phone signaling via a network, comprising:  
a Codec configured to receive analog phone signals and generate digitized voice, and digitized voiceband data;  
a Subscriber Line Interface Circuit (SLIC) configured to receive analog phone signaling and generate digitized phone signaling;  
a network interface for interfacing to an local area network (LAN) that follows a ~~local area~~ HomePNA network protocol that supports levels of transmission priority for transmitting data without a separate voice dedicated network and without a logically separate voice network;  
said network device configured to generate voice packets that include said digitized voice, digitized voiceband data and digitized phone signaling, by setting a field in a frame header of a HomePNA frame that encapsulates each of the voice packets associated with the digitized voice and digitized voiceband indicating that the voice packets are to be transmitted at a highest level of priority of the local area network, wherein said voice packets conform to a set of protocols that excludes Internet Protocol (IP), and wherein each of said voice packets is an Ethernet packet encapsulating one ATM Adaptation Layer 2 (AAL2) cell; and  
said network device configured to transmit said voice packets via said local area network, wherein the voice packets associated with the digitized voice and digitized voiceband are transmitted at the highest level of priority as indicated by the setting of the field in the frame header.

1 9. (Canceled)

1 10. (Canceled)

1 11. (Original) The network device of Claim 8, wherein said LAN uses as a transmission  
2 medium phone line inside wiring in a home that is connected to one or more analog  
3 telephones.

1 12. (Canceled)

1 13. (Canceled)

1 14. (Original) The network device of Claim 8, wherein said network device is a phone  
2 line adapter configured to receive said phone analog signals from a separate device  
3 connected to said phone line adaptor.

1 15. (Currently Amended) A network device that can transmit digitized voice, digitized  
2 voiceband data, and digitized phone signaling via a network, comprising:  
3 a Codec configured to receive analog phone signals and generate digitized voice and  
4 digitized voiceband data;  
5 a Subscriber Line Interface Circuit (SLIC) configured to receive analog phone signaling  
6 and generate digitized versions of said analog phone signaling[.];  
7 a means for interfacing to an local area network (LAN) that follows a ~~local~~  
8 areaHomePNA network protocol that supports levels of transmission priority for  
9 transmitting data and that uses inside wiring as a transmission medium without a  
10 separate voice dedicated network and without a logically separate voice network;  
11 a means for generating voice packets for transporting digitized voice, digitized voiceband  
12 data and digitized phone signaling, by setting a field in a frame header of a  
13 HomePNA frame that encapsulates each of the voice packets associated with the

digitized voice and digitized voiceband indicating that the voice packets are to be transmitted at a highest level of priority of the local area network, wherein said voice packets conform to a set of protocols that excludes Internet Protocol (IP), and wherein each of said voice packets is an Ethernet packet encapsulating one ATM Adaptation Layer 2 (AAL2) cell; and

a means for transmitting said voice packets via said local area network, wherein the voice packets associated with the digitized voice and digitized voiceband are transmitted at the highest level of priority as indicated by the setting of the field in the frame header.

16. (Canceled)

17. (Canceled)

18. (Currently Amended) A computer-readable medium carrying one or more sequences of instructions for transporting digitized voice, digitized voiceband data and digitized phone signaling over a network, wherein execution of the one or more sequences of instructions by one or more processors causes the one or more processors to perform the steps of: converting analog phone signals into voice packets for transporting digitized voice, digitized voiceband data and digitized phone signaling, wherein said voice packets conform to a set of protocols that excludes Internet Protocol (IP), and wherein each of said voice packets is an Ethernet packet encapsulating one ATM Adaptation Layer 2 (AAL2) cell; setting a field in a frame header of a HomePNA frame that encapsulates each of the voice packets associated with the digitized voice and digitized voiceband indicating that the voice packets are to be transmitted at a highest level of priority of a phone line local area network that supports levels of transmission priority for transmitting data; and transmitting said voice packets over the phone line local area network without a separate voice dedicated network and without a logically separate voice network, wherein the voice packets associated with the digitized voice and digitized voiceband are

18 transmitted at the highest level of priority as indicated by the setting of the field in  
19 the frame header,  
20 wherein said phone line local area network follows a HomePNA network protocol.

1 19. (Canceled)

1 20. (Canceled)

1 21. (Previously Presented) The method of Claim 1, wherein the step of transmitting  
2 includes transmitting said voice packets over phone line inside wiring in a residence that  
3 is connected to one or more analog telephones and one or more computer devices.

1 22. (Previously Presented) The network device of Claim 8, wherein said LAN uses as a  
2 transmission medium phone line inside wiring in a home that is connected to one or more  
3 analog telephones and one or more network devices.